

BEAM POWER TUBE

9-PIN MINIATURE TYPE

GENERAL DATA						
Electrical:						
Direct Intere Grid No.1 t Grid No.1 t grid No.2 Plate to ca	lectrode Ca	. 6.3 . 0.45 pacitance grid No.3 r	s (Appro	x.):0' (or dc D.7 8 8.5	
Mechanical:						
Operating Pos Maximum Overa Maximum Seate Length, Base Diameter Dimensional O Bulb Base Basing Desi	d Length . Seat to Bulb 	Top (Excl	uding ti	p)	2" ± 0" to eral S	2-3/8" 3/32" 0.875" ection T6-1/2 .E9-1)
Pin 1 - Grid Pin 2 - No C tic Pin 3 - Grid Pin 4 - Heat Pin 5 - Heat	onnec- n No.1 er	3 4	6 7 8 9	Pin 6 - 0 Pin 7 - 0 Pin 8 - 1	Cathod Grid No Con tion	e, No.3
	AMPL	IFIER -	Class A _I			
Maximum Ratin	gs, Design-	Center Va	lues:			
PLATE VOLTAGE GRID-No.2 (SC GRID-No.2 INF PLATE DISSIPA PEAK HEATER-C Heater nega Heater posi	TION	 AGE: spect to c	athode	285 2 12 200		volts volts watts watts volts
Typical Opera	tion and Ch	aracteris	tics:			
Plate Voltage Grid-No.2 Vol Grid-No.1 (Co Peak AF Grid- Zero-Signal P MaxSignal P Zero-Signal G MaxSignal G	tage ntrol-Grid) No.1 Voltag late Curren late Curren rid-No.2 Cu	 Voltage. e t rrent	180 180 -8.5 8.5 29 30 3	250 250 -12.5 12.5 45 47 4.5	315 225 -13 13 34 35 2.2 6	volts volts volts volts ma ma ma
O,≜: See next p	age.					



BEAM POWER TUBE

Plate Resistance (Approx.). 50000 50000 80000 ohms Transconductance. 3700 4100 3750 µmhos Load Resistance 5500 5000 8500 ohms Total Harmonic Distortion 8 8 12 % Max.—Signal Power Output. 2 4.5 5.5 watts Maximum Circuit Values: Grid—No.1—Circuit Resistance: For fixed—bias operation. 0.1 max. megohm For cathode—bias operation. 0.5 max. megohm For cathode—bias operation. 0.5 max. volts PEAK POSITIVE—PULSE PLATE VOLTAGE* (Absolute maximum). 2000 max. volts DC GRID—No.2 (SCREEN—GRID) VOLTAGE. 285 max. volts PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL— GRID) VOLTAGE. 250 max. watts PLATE DISSIPATION. 8 max DC. 40 max. ma DC. 40 max. ma DC. 1NPUT. 1.75 max. watts PLATE DISSIPATION. 8 max. volts Maximum Circuit Values: Grid—No.1—Circuit Resistance: For cathode—bias operation. 2.2 max. megohms VERTICAL—DEFLECTION AMPLIFIER Tride Connection† Maximum Circuit Values: Grid—No.1—Circuit Resistance: For cathode—bias operation. 2.2 max. megohms VERTICAL—DEFLECTION AMPLIFIER Tride Connection† Maximum Ratings, Design—Center Values Except as Noted: DC PLATE VOLTAGE. 315 max. volts Maximum Ratings, Design—Center Values Except as Noted: DC PLATE VOLTAGE. 315 max. volts PEAK HEATER—CATHODE VOLTAGE: GASON — 315 max. volts Maximum Ratings, Design—Center Values Except as Noted: DC PLATE VOLTAGE. 315 max. volts PEAK NEGATIVE—PULSE PLATE VOLTAGE* (Absolute maximum). 2000 max. volts PEAK NEGATIVE—PULSE PLATE VOLTAGE* (Absolute maximum). 2000 max. volts PEAK NEGATIVE—PULSE PLATE VOLTAGE* (Absolute maximum). 2000 max. volts PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL— GRID) VOLTAGE. 250 max. volts PEAK HEATER—CATHODE VOLTAGE: Heater negative with respect to cathode 200 max. volts PEAK HEATER—CATHODE VOLTAGE: Heater negative with respect to cathode 200 max. volts Heater negative with respect to cathode 200 max. volts Heater negative with respect to cathode 200 max. volts Heater negative with respect to cathode 200 max. volts Heater negative with respect to cathode 200 max. volts Heater negative with respect to cathode 200 max. v					
Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation	Transconductance	4100 5000	3750 8500	µmhos ohms %	
Grid-No.1-Circuit Resistance: For fixed-bias operation		7.0	0.0	watts	-
For fixed-bias operation	· ·				
Maximum Ratings, Design-Center Values Except as Noted: For operation in a 525-line, 30-frame system DC PLATE VOLTAGE	For fixed-bias operation	0.1 0.5	max. max.		
For operation in a 525-line, 30-frame system DC PLATE VOLTAGE	VERTICAL-DEFLECTION AMPLIF	ER			
For operation in a 525-line, 30-frame system DC PLATE VOLTAGE	Maximum Ratings, Design-Center Values Excep	t as N	oted:		1
DC PLATE VOLTAGE					l
PEAK POSITIVE—PULSE PLATE VOLTAGE* (Absolute maximum)	DO DIATE VOLTAGE	-		volts	
CASIDE MAXIMUM	PEAK POSITIVE-PULSE PLATE VOLTAGE*	740	max.	10113	
PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL—GRID) VOLTAGE	1 (Absorute maximum)		max.		
GRID) VOLTAGE		285	max.	volts	
CATHODE CURRENT: Peak		250			
Peak		250	max.	VOITS	ļ
DC		120	max.	ma	
GRID-No.2 INPUT	DC				1
PEAK HEATER—CATHODE VOLTAGE: Heater negative with respect to cathode Heater positive with respect to cathode Heater positive with respect to cathode Maximum Circuit Values: Grid—No.1—Circuit Resistance: For cathode—bias operation	GRID-No.2 INPUT	1.75	max.	watts	
Heater negative with respect to cathode Heater positive with respect to cathode Heater positive with respect to cathode Maximum Circuit Values: Grid—No.1—Circuit Resistance: For cathode—bias operation		8	max.	watts	
Heater positive with respect to cathode 200 max. volts Maximum Circuit Values: Grid-No.1-Circuit Resistance: For cathode-bias operation		200		1.	
Maximum Circuit Values: Grid—No.1—Circuit Resistance: For cathode—bias operation					
Grid—No.1—Circuit Resistance: For cathode—bias operation. 2.2 max. megohms VERTICAL—DEFLECTION AMPLIFIER Triode Connection Maximum Ratings, Design—Center Values Except as Noted: DC PLATE VOLTAGE		200	max.	VOILS	
VERTICAL-DEFLECTION AMPLIFIER Triode Connection Maximum Ratings, Design-Center Values Except as Noted: DC PLATE VOLTAGE	•				
VERTICAL-DEFLECTION AMPLIFIER Triode Connection Maximum Ratings, Design-Center Values Except as Noted: DC PLATE VOLTAGE				. /	
Triode Connection Maximum Ratings, Design-Center Values Except as Noted: DC PLATE VOLTAGE	For cathode-bias operation	2.2	max. r	negohms	
Triode Connection Maximum Ratings, Design-Center Values Except as Noted: DC PLATE VOLTAGE					
Maximum Ratings, Design-Center Values Except as Noted: DC PLATE VOLTAGE		ER			
DC PLATE VOLTAGE	Triode Connection				
PEAK POSITIVE—PULSE PLATE VOLTAGE* (Absolute maximum)	Maximum Ratings, Design-Center Values Excep	t as N	oted:		
PEAK POSITIVE—PULSE PLATE VOLTAGE* (Absolute maximum)		315	max.	volts	-
PEAK NEGATIVE—PULSE GRID—No.1 (CONTROL—GRID) VOLTAGE					l
GRID) VOLTAGE	(Absolute maximum)	2000	max.	volts	l
CATHODE CURRENT: Peak		050		1.	
Peak		250	max.	volts	
PLATE DISSIPATION		120	may	ma	
PLATE DISSIPATION					
Heater negative with respect to cathode Heater positive with respect to cathode O,A,D#, See next page. 200 max. volts 200^ max. volts					
Heater positive with respect to cathode 200 max. volts o, △,□#,■,†: see next page.	PEAK HEATER-CATHODE VOLTAGE:			_	
o, A, D#, B, †: See next page.	Heater negative with respect to cathode				
	lo A D # • 1. cas next are	200	max.	volts	
		TE:-	47115		J



BEAM POWER TUBE

Characteristics:	
Plate Voltage	250 volts
Grid-No.1 Voltage	-12.5 volts
Amplification Factor	9.8
Plate Resistance (Approx.)	1960 ohms
Transconductance	μ mhos
Plate Current	49.5 ma
Grid-No.1 Voltage (Approx.) for	
plate ma. = 0.5	−37 volts
I	

Maximum Circuit Values:

Grid-No.1-Circuit Resistance: For cathode-bias operation. 2.2 max. megohms

CURVES

shown under Types 6V6 and 6V6-GT, within ratings, also apply to the 6CM6

^C without external shield.

riangle The dc component must not exceed 100 volts.

As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^{*}This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

Under no circumstances should this absolute value be exceeded. f Grid-No.2 connected to plate.